SEQUENCE LISTING

(1	GENERAL.	INFORMATION
\ _		TIAT OLIVERY TITOTA

- (i) APPLICANT: Dong, Fang Lyamichev, Victor I. Prudent, James R.
- (ii) TITLE OF INVENTION: TARGET-DEPENDENT REACTIONS USING STRUCTURE-BRIDGING OLIGONUCLEOTIDES
- (iii) NUMBER OF SEQUENCES: 123
- (iv) CORRESPONDENCE ADDRESS:

 - (A) ADDRESSEE: MEDLEN & CARROLL, LLP
 (B) STREET: 220 Montgomery Street, Suite 2200
 - (C) CITY: San Francisco
 - (D) STATE: CA
 - (E) COUNTRY: USA
 - (F) ZIP: 94104
- (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Floppy disk
 - (B) COMPUTER: IBM PC Compatible (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
- (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER: US (B) FILING DATE:

 - (C) CLASSIFICATION:
- (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: MacKnight, Kamrin T.
 - (B) REGISTRATION NUMBER: 38,230
 - (C) REFERENCE/DOCKET NUMBER: FORS-03345
 - (ix) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: (415) 705-8410
 - (B) TELEFAX: (415) 397-8338
- (2) INFORMATION FOR SEQ ID NO:1:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 391 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: other nucleic acid
 - (A) DESCRIPTION: /desc = "DNA"
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

60	GGTCGTATGG	GCGGCATCGA	GCGATCACCA	CGGTAAGGAC	GCACCGGAAC	AGCTCGTATG
120	CTACGAGTGG	TCCTGTACGG	TTCCTCGAGA	GGACAACAGT	CGACGAAATG	ACGAACACCC
180	CGCCGGTGCC	CCAAGGACGG	CAATACACCG	TGGCGCTTGG	AGAGCCCTGC	GAGCTGACGA
240	GGCCACTGAC	CGACGATGCT	GGGCGCTCCC	CGGCGGGCCA	CGGACCCGTT	GGCACCATCC
300	GGAACACCCC	стесетске	CGGATCACGC	GATCTATGAG	GGGTGGATCC	<u>יריירייריתיתיתיתיתיתיתיתיתיתיתיתיתיתיתי</u>

	GAGGAATTGG CCGACGAGTT CGCCAAGGCC TGGTACAAGC TGATCCACCG AGACATGGGT	360
	CCCGTTGCGA GATACCTTGG GCCGGTGGTC C	391
5	(2) INFORMATION FOR SEQ ID NO:2:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 391 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
15	<pre>(ii) MOLECULE TYPE: other nucleic acid</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:	
	AGCTCGTATG GCACCGGAAC CGGTAAGGAC GCGATCACCA CCGGCATCGA GGTCGTATGG	60
20	ACGAACACCC CGACGAAATG GGACAACAGT TTCCTCGAGA TCCTGTACGG CTACGAGTGG	120
	GAGCTGACGA AGAGCCCTGC TGGCGCTTGG CAATACACCG CCAAGGACGG CGCCGGTGCC	180
25	GGCACCATCC CGGACCCGTT CGGCGGGCCA GGGCGCTCCC CGACGATGCT GGCCACTGAC	240
	CTCTCGCTGC GGGTGGATCC GATCTATGAG CGGATCACGC GTCGCTGGCT GGAACACCCC	300
	GAGGAATTGG CCGACGAGTT CGCCAAGGCC TGGTACAAGC TGATCCACCG AGACATGGGT	360
30	CCCGTTGCGA GATACCTTGG GCCGCTGGTC C	391
14	(2) INFORMATION FOR SEQ ID NO:3:	
35 35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 391 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
40	<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:	
45	AGCTCGTATG GCACCGGAAC CGGTAAGGAC GCGATCACCA GCGGCATCGA GGTCGTATGG	60
	ACGAACACCC CGACGAAATG GGACAACAGT TTCCTCGAGA TCCTGTACGG CTACGAGTGG	120
50	GAGCTGACGA AGAGCCCTGC TGGCGCTTGG CAATACACCG CCAAGGACGG CGCCGGTGCC	180
50	GGCACCATCC CGGACCCGTT CGGCGGCCCA GGGCGCTCCC CGACGATGCT GGCCACTGAC	240
	CTCTCGCTGC GGGTGGATCC GATCTATGAG CGGATCACGC GTCGCTGGCT GGAACACCCC	300
55	GAGGAATTGG CCGACGAGTT CGCCAAGGCC TGGTACAAGC TGATCCACCG AGACATGGGT	360
	CCCGTTGCGA GATACCTTGG GCCGCTGGTC C	391
<i>(</i> 0	(2) INFORMATION FOR SEQ ID NO:4:	
60	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 391 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	

	<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"</pre>	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:	
٦	AGCTCGTATG GCACCGGAAC CGGTAAGGAC GCGATCACCA CCGGCATCGA GGTCGTATGG	60
	ACGAACACCC CGACGAAATG GGACAACAGT TTCCTCGAGA TCCTGTACGG CTACGAGTGG	120
10	GAGCTGACGA AGAGCCCTGC TGGCGCTTGG CAATACACCG CCAAGGACGG CGCCGGTGCC	180
	GGCACCATCC CGGACCCGTT CGGCGGGCCA GGGCGCTCCC CGACGATGCT GGCCACTGAC	240
15	CTCTCGCTGC GGGTGGATCC GATCTATGAG CGGATCACGC GTCGCTGGCT GGAACACCCC	300
13	GAGGAATTGG CCGACGAGTT CGCCAAGGCC TGGTACAAGC TGATCCACCG AGACATGGGT	360
	CCCGTTGCGA GATACCTTGG GCCGGTGGTC C	391
20	(2) INFORMATION FOR SEQ ID NO:5:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
30	<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:	
jes la	AGCTCGTATG GCACCGGAAC	20
35	(2) INFORMATION FOR SEQ ID NO:6:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
[] [] 45	<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:	
	TTGACCTCCC ACCCGACTTG	20
50	(2) INFORMATION FOR SEQ ID NO:7:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
60	<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"</pre>	
~~	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:	
	AGCTCGTATG GCACCGGAAC C	21

	(2) INFORMATION FOR SEQ ID NO:8:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
10	<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:	
15	GGACCAGCGG CCCAAGGTAT	20
13	(2) INFORMATION FOR SEQ ID NO:9:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
25	<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"</pre>	
41	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:	
130	GGACCACCGG CCCAAGGTAT CT	22
	(2) INFORMATION FOR SEQ ID NO:10:	
135 135	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
40	(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
1 9	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:	
	TTTTTGCCGC TGGTGATCGC G	21
45	(2) INFORMATION FOR SEQ ID NO:11:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
55	<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:	
60	GGAGAGCCAT AG	12

WO 98/50403 PCT/US98/03194 (2) INFORMATION FOR SEQ ID NO:12: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs 5 (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid 10 (A) DESCRIPTION: /desc = "DNA" (xi) SEQUENCE DESCRIPTION: SEQ ID NO:12: TGGTCTGCGG A 11 15 (2) INFORMATION FOR SEQ ID NO:13: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs 20 (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid
(A) DESCRIPTION: /desc = "DNA"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:

(111) 512011(11 111001111 112011. 512 115 116.15.

(2) INFORMATION FOR SEQ ID NO:14:

GGACGACCGG G

IJ1

- L

135

: 14 H

40

45

50

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 11 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:

GGAGATTTGG G

(2) INFORMATION FOR SEQ ID NO:15:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 11 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid
(A) DESCRIPTION: /desc = "DNA"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:

CCGCGAGACT G 11

1 1

11

WO 98/50403 PCT/US98/03194 (2) INFORMATION FOR SEQ ID NO:16: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs 5 (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid 10 (A) DESCRIPTION: /desc = "DNA" (xi) SEQUENCE DESCRIPTION: SEQ ID NO:16: CTAGCCGAGT AG 12 15 (2) INFORMATION FOR SEQ ID NO:17: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs 20 (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid 25 (A) DESCRIPTION: /desc = "DNA" (xi) SEQUENCE DESCRIPTION: SEQ ID NO:17: 41 TGTTGGGTCG C 11 (2) INFORMATION FOR SEQ ID NO:18: Ţ (i) SEQUENCE CHARACTERISTICS: en l (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid 35 (C) STRANDEDNESS: single (D) TOPOLOGY: linear 41 (ii) MOLECULE TYPE: other nucleic acid 40 (A) DESCRIPTION: /desc = "DNA" Ü (xi) SEQUENCE DESCRIPTION: SEQ ID NO:18: CCGCGAGACC G 11 (2) INFORMATION FOR SEQ ID NO:19: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs 50 (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid

(A) DESCRIPTION: /desc = "DNA"
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:

55

60

CCGCAAGACC G

- 166 -

11

	(2) INFORMATION FOR SEQ ID NO:20:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 289 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:	
15	GATTCTGTCT TCACGCAGAA AGCGTCTAGC CATGGCGTTA GTATGAGTGT CGTGCAGCCT	6
13	CCAGGACCCC CCCTCCCGGG AGAGCCATAG TGGTCTGCGG AACCGGTGAG TACACCGGAA	12
	TTGCCAGGAC GACCGGGTCC TTTCTTGGAT CAACCCGCTC AATGCCTGGA GATTTGGGCG	18
20	TGCCCCCGCA AGACTGCTAG CCGAGTAGTG TTGGGTCGCG AAAGGCCTTG TGGTACTGCC	24
	TGATAGGGTG CTTGCGAGTG CCCCGGGAGG TCTCGTAGAC CGTGCAATC	28:
25	(2) INFORMATION FOR SEQ ID NO:21:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 286 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:	
ê	GATTCTGTCT TCACGCAGAA AGCGTCTAGC CATGGCGTTA GTATGAGTGT CGTGCAGCCT	60
40	CCAGGTCCCC CCCTCCCGGG AGAGCCATAG TGGTCTGCGG AACCGGTGAG TACACCGGAA	120
j	TTGCCAGGAC GACCGGTCC TTTCTTGGAT CAACCCGCTC AATGCCTGGA GATTTGGGCG	180
And Smit	TGCCCCCGCG AGACTGCTAG CCGAGTAGTG TTGGGTCGCG AAAGGCCTTG TGGTACTGCC	240
45	TGATAGGGTG CTTGCGAGTG CCCCGGGAGG TCTCGTAGAC CGTGCA	286
	(2) INFORMATION FOR SEQ ID NO:22:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 289 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
55	<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:	
60	GATTCTGTCT TCACGCAGAA AGCGTCTAGC CATGGCGTTA GTATGAGTGT CGTACAGCCT	60
	CCAGGCCCCC CCCTCCCGGG AGAGCCATAG TGGTCTGCGG AACCGGTGAG TACACCGGAA	120
65	TTGCCGGGAA GACTGGGTCC TTTCTTGGAT AAACCCACTC TATGCCCGGC CATTTGGGCG	180

5	TGCCCCCGCA AGACTGCTAG CCGAGTAGCG TTGGGTTGCG AAAGGCCTTG TGGTACTGCC TGATAGGGTG CTTGCGAGTA CCCCGGGAGG TCTCGTAGAC CGTGCAATC (2) INFORMATION FOR SEQ ID NO:23: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 289 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	240 289
	(2) INFORMATION FOR SEQ ID NO:23: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 289 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid	289
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 289 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid	
10	(A) LENGTH: 289 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid	
	• • • • • • • • • • • • • • • • • • • •	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:23:	
	GATTCTGTCT TCACGCAGAA AGCGCCTAGC CATGGCGTTA GTACGAGTGT CGTGCAGCCT	60
20	CCAGGACCCC CCCTCCCGGG AGAACCATAG TGGTCTGCGG AACCGGTGAG TACACCGGAA	120
	TCGCTGGGGT GACCGGGTCC TTTCTTGGAG CAACCCGCTC AATACCCAGA AATTTGGGCG	180
25	TGCCCCCGCG AGATCACTAG CCGAGTAGTG TTGGGTCGCG AAAGGCCTTG TGGTACTGCC	240
23	TGATAGGGTG CTTGCGAGTG CCCCGGGAGG TCTCGTAGAC CGTGCAATC	289
:	(2) INFORMATION FOR SEQ ID NO:24:	
30 35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
Hade work	<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"</pre>	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:24:	
	CTCGCAAGCA CCCTATCA	18
= # = #	(2) INFORMATION FOR SEQ ID NO:25:	
4550	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
50	(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
55	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:25:	
55	GCAGAAAGCG TCTAGCCATG G	21
	(2) INFORMATION FOR SEQ ID NO:26:	
60 65	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 244 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"</pre>	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:26:	
J	GCAGAAAGCG TCTAGCCATG GCGTTAGTAT GAGTGTCGTG CAGCCTCCAG GACCCCCCT	60
	CCCGGGAGAG CCATAGTGGT CTGCGGAACC GGTGAGTACA CCGGAATTGC CAGGACGACC	120
10	GGGTCCTTTC TTGGATCAAC CCGCTCAATG CCTGGAGATT TGGGCGTGCC CCCGCAAGAC	180
	TGCTAGCCGA GTAGTGTTGG GTCGCGAAAG GCCTTGTGGT ACTGCCTGAT AGGGTGCTTG	240
15	CGAG	244
1.0	(2) INFORMATION FOR SEQ ID NO:27:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 244 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"</pre>	
The state	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:27:	
130	GCAGAAAGCG TCTAGCCATG GCGTTAGTAT GAGTGTCGTG CAGCCTCCAG GTCCCCCCT	60
ļ	CCCGGGAGAG CCATAGTGGT CTGCGGAACC GGTGAGTACA CCGGAATTGC CAGGACGACC	120
i i	GGGTCCTTTC TTGGATCAAC CCGCTCAATG CCTGGAGATT TGGGCGTGCC CCCGCGAGAC	180
35	TGCTAGCCGA GTAGTGTTGG GTCGCGAAAG GCCTTGTGGT ACTGCCTGAT AGGGTGCTTG	240
	CGAG	244
- -40	(2) INFORMATION FOR SEQ ID NO:28:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 244 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:28:	
	GCAGAAAGCG TCTAGCCATG GCGTTAGTAT GAGTGTCGTA CAGCCTCCAG GCCCCCCCT	60
55	CCCGGGAGAG CCATAGTGGT CTGCGGAACC GGTGAGTACA CCGGAATTGC CGGGAAGACT	120
33	GGGTCCTTTC TTGGATAAAC CCACTCTATG CCCGGCCATT TGGGCGTGCC CCCGCAAGAC	180
	TGCTAGCCGA GTAGCGTTGG GTTGCGAAAG GCCTTGTGGT ACTGCCTGAT AGGGTGCTTG	240
60	CGAG	244

	(2) INFORMATION FOR SEQ ID NO:29:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 244 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:29:	
15	GCAGAAAGCG CCTAGCCATG GCGTTAGTAC GAGTGTCGTG CAGCCTCCAG GACCCCCCCT	60
13	CCCGGGAGAA CCATAGTGGT CTGCGGAACC GGTGAGTACA CCGGAATCGC TGGGGTGACC	120
	GGGTCCTTTC TTGGAGCAAC CCGCTCAATA CCCAGAAATT TGGGCGTGCC CCCGCGAGAT	180
20	CACTAGCCGA GTAGTGTTGG GTCGCGAAAG GCCTTGTGGT ACTGCCTGAT AGGGTGCTTG	240
	CGAG	244
25	(2) INFORMATION FOR SEQ ID NO:30:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 216 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"</pre>	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:30:	
3	CAGAAAGGGT TTAGCCATGG GGTTAGTATG AGTGTCGTAC AGCCTCCAGG CCCCCCCTC	60
*! **40	CCGGGAGAGC CATAGTGGTC TGCGGAACCG GTGAGTACAC CGGAATTGCC GGGAAGACTG	120
40 1	GGTCCTTTCT TGGATAAACC CACTCTATGC CCGGCCATTT GGGCGTGCCC CCGCAAGACT	180
The second secon	GCTAGCCGAG TAGCGTTGGG TTGCGAAAGG CCTTGT	216
45	(2) INFORMATION FOR SEQ ID NO:31:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 244 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
55	<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:31:	
1	CAGAAAGGGT TTAGCCATGG CGTTAGTATG AGTGTCGTGC AGCCTCCAGG ACCCCCCTC	60
60	CCGGGAGAGC CATAGTGGTC TGCGGAACCG GTGAGTACAC CGGAATTGCC AGGACGACCG	120
	GGTCCTTTCT TGGATAAAAC CCGCTCAATG CCTGGAGATT TGGGCGTGCC CCCGCAAGAC	180

	TGCTAGCCGA GTAGTGTTGG GTCGCGAAAG GCCTTGTGGT ACTGCCTGAT AGGGTGCTTG	240
	CAAG	244
5	(2) INFORMATION FOR SEQ ID NO:32:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 239 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15	<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:32:	
	GCAGAAAGGT TTAGCCATGG GTTAGTATGA GTGTCGTGCA GCCTCCAGGA CCCCCCCTCC	60
20	CGGGAGAGCC ATAGTGGTCT GCGGAACCGG TGAGTACACC GGAATTGCCA GGACGACCGG	120
	GTCCTTTCTT GGATTAACCC GCTCAATGCC TGGAGATTTG GGCGTGCCCC CGCAAGACTG	180
25	CTAGCCGAGT AGTGTTGGGT CGCGAAAGGC CTTGTGGTAC TGCCTGATAG GGTGCTTGC	239
25	(2) INFORMATION FOR SEQ ID NO:33:	
4.30 4.30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 240 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35	(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
1 <u>.</u> 1	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:33:	
40 []	GCAGAAAGGT TTAGCCATGG GGTTAGTATG AGTGTCGTAC AGCCTCCAGG ACCCCCCTC	60
	CCGGGAGAGC CATAGTGGTC TGCGGAACCG GTGAGTACAC CGGAATTGCC AGGACGACCG	120
	GGTCCTTTCT TGGATAAACC CGCTCAATGC CTGGAGATTT GGGCGTGCCC CCGCAAGACT	180
45	GCTAGCCGAG TAGTGTTGGG TCGCGAAAGG CCTTGTGGTA CTGCCTGATA GGGTGCTTGC	240
	(2) INFORMATION FOR SEQ ID NO:34:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 240 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
55	<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:34:	
60	GCAGAAAGGG TTTAGCCATG GCGTTAGTAT GAGTGTCGTA CAGCCTCCAG GCCCCCCCT	60
	CCCGGGAGAG CCATAGTGGT CTGCGGAACC GGTGAGTACA CCGGAATTAC CGGAAAGACT	120

GGGTCCTTTC TTGGATAAAC CCACTCTATG TCCGGTCATT TGGGCGTGCC CCCGCAAGAC 180 TGCTAGCCGA GTAGCGTTGG GTTGCAAAGG CCTTGTGGTA CTGCCTGATA GGGTGCTTGC 240 5 (2) INFORMATION FOR SEQ ID NO:35: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 240 base pairs (B) TYPE: nucleic acid 10 (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA" 15 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:35: CAGAAAGGGT TTAGCCATGG GGTTAGTACG AGTGTCGTGC AGCCTCCAGG CCCCCCCTC 60 20 ccgggagagc catagtggtc tgcggaaccg gtgagtacac cggaatcgct ggggtgaccg 120 GGTCCTTTCT TGGAGCAACC CGCTCAATAC CCAGAAATTT GGGCGTGCCC CCGCGAGATC 180 ACTAGCCGAG TAGTGTTGGG TCGCGAAAGG CCTTGTGGTA CTGCCTGATA GGGTGCTTGC 240 (2) INFORMATION FOR SEO ID NO:36: mal II is affert Haus (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 239 base pairs 30 (B) TYPE: nucleic acid (C) STRANDEDNESS: double i i (D) TOPOLOGY: linear ne la 35 (ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA" :: (xi) SEQUENCE DESCRIPTION: SEQ ID NO:36: 'n. AGAAAGCGTT TAGCCATGGC GTTAGTATGA GTGTTGTGCA GCCTCCAGGA CCCCCCCTCC 60 Ţ. CGGGAGACC ATAGTGGTCT GCGGAACCGG TGAGTACACC GGAATTGCCA GGACGACCGG 120 GTCCTTTCTT GGATCAACCC GCTCAATGCC TGGAGATTTG GGCGTGCCCC CGCAAGACTG 180 45 CTAGCCGAGT AGTGTTGGGT CGCGAAAGGC CTTGTGGTAC TGCCTGATAG GGTGCTTGC 239 (2) INFORMATION FOR SEQ ID NO:37: (i) SEQUENCE CHARACTERISTICS: 50 (A) LENGTH: 232 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 55 (ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA" (xi) SEQUENCE DESCRIPTION: SEQ ID NO:37: 60 GTTTAGCCAT GGCGTTAGTA TGAGTGTCGT GCAGCCTCCA GGACCCCCCC TCCCGGGAGA 60 GCCATAGTGG TCTGCGGAAC CGGTGAGTAC ACCGGAATTG CCAGGACGAC CGGGTCCTTT 120

PCT/US98/03194

WO 98/50403

WO 98/50403 PCT/US98/03194 CTTGGATCAA CCCGCTCAAT GCCTGGAGAT TTGGGCGTGC CCCCGCGAGA CCGCTAGCCG AGTAGTGTTG GGTCGCGAAA GGCCTTGTGG TACTGCCTGA TAGGGTGCTT GC 232 5 (2) INFORMATION FOR SEQ ID NO:38: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 240 base pairs (B) TYPE: nucleic acid 10 (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid
 (A) DESCRIPTION: /desc = "DNA" 15 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:38: GCAGAAAGCG TTTAGCCATG GCGTTAGTAC GAGTGTCGTG CAGCCTCCAG GACCCCCCT 60 20 CCCGGGAGAG CCATAGTGGT CTGCGGAACC GGTGAGTACA CCGGAATCGC TGGGGTGACC 120 GGGTCCTTTC TTGGAACAAC CCGCTCAATA CCCAGAAATT TGGGCGTGCC CCCGCGAGAT 180 CACTAGCCGA GTAGTGTTGG GTCGCGAAAG GCCTTGTGGT ACTGCCTGAT AGGGTGCTTG 240 (2) INFORMATION FOR SEQ ID NO:39: :43 Handle W. H. Hand (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 44 base pairs 30 (B) TYPE: nucleic acid (C) STRANDEDNESS: single ji (D) TOPOLOGY: linear en is (ii) MOLECULE TYPE: other nucleic acid 35 (A) DESCRIPTION: /desc = "DNA" ŧΞ 21 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:39: : 42 g i...k TGCTCTCTGG TCGCTGTCTG AAAGACAGCG TGGTCTCTCG TAAT **ن**ا 40 (2) INFORMATION FOR SEO ID NO:40: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 44 base pairs 45 (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid 50 (A) DESCRIPTION: /desc = "DNA" (xi) SEQUENCE DESCRIPTION: SEQ ID NO:40: TGCTCTCTGG TCGCTGTCTG AAAGACTCCG TGGTCTCTCG TAAT 44 55 (2) INFORMATION FOR SEQ ID NO:41: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 44 base pairs (B) TYPE: nucleic acid 60 (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid 65

(A) DESCRIPTION: /desc = "DNA"

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:41:	
	TGCTCTCTGG TCGCTGTCTG AATTTTTTTT TGGTCTCTCG TAAT	44
5	(2) INFORMATION FOR SEQ ID NO:42:	
10	 (i) SEQUENCE CHARACTERISTICS; (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
15	<pre>(ii) MOLECULE TYPE: other nucleic acid</pre>	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:42:	
	AGACCATTAC CAGA	1.4
20	(2) INFORMATION FOR SEQ ID NO:43:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
30	<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:43:	
las b	GAGACCATTA CCAGAG	16
³ 35	(2) INFORMATION FOR SEQ ID NO:44:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
45	<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"</pre>	
77.7	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:44:	
	AGAGACCATT ACCAGAGA	18
50	(2) INFORMATION FOR SEQ ID NO:45:	
5 5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
60	<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA" (xi) SEQUENCE DESCRIPTION: SEQ ID NO:45:</pre>	
		10
	AGAGACCATT ACAAGCGA	18

WO 98/50403

PCT/US98/03194

(2) INFORMATION FOR SEQ ID NO:46: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid 5 (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid 10 (A) DESCRIPTION: /desc = "DNA" (xi) SEQUENCE DESCRIPTION: SEQ ID NO:46: 18 AGCGAACATT ACCAGAGA 15 (2) INFORMATION FOR SEQ ID NO:47: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs 20 (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid 25 (A) DESCRIPTION: /desc = "DNA" The House of the House (xi) SEQUENCE DESCRIPTION: SEQ ID NO:47: 16 AGAGACCAAC CAGAGA 30 (2) INFORMATION FOR SEQ ID NO:48: 200 k (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 9 base pairs 35 (B) TYPE: nucleic acid :3 (C) STRANDEDNESS: single 1 m 3 (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid 40 (A) DESCRIPTION: /desc = "DNA" (xi) SEQUENCE DESCRIPTION: SEQ ID NO:48: 9 AGAGACCAT 45 (2) INFORMATION FOR SEQ ID NO:49: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 9 base pairs 50 (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid 55 (A) DESCRIPTION: /desc = "DNA" (xi) SEQUENCE DESCRIPTION: SEQ ID NO:49: TACCAGAGA

PCT/US98/03194

WO 98/50403

60

		(2)	INFO	RMATION FOR SEQ ID NO:50:	
	5		(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	10		(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
			(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:50:	
	15	ACC	AGAGA	GC GC	10
	15	(2)	INFO	RMATION FOR SEQ ID NO:51:	
	20		(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	25		(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
The second			(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:51:	
100 H 100 H	20	TCAG	GACAG	CG	10
Man and and	30	(2)	INFO	RMATION FOR SEQ ID NO:52:	
lak Mi	35		(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	40		(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
			(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:52:	
.m.s.	15	AGTG	GTCT	GC GGAACCGG	18
4	45	(2)	INFO	RMATION FOR SEQ ID NO:53:	
	50		(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	55		(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
			(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:53:	
	60	AGTG	TCGT	TT GGAACCGG	18

PCT/US98/03194

WO 98/50403

	(2) INFORMATION FOR SEQ ID NO:54:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
10	(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:54:	
15	AGTGTCGTAA GGAACCGG	18
13	(2) INFORMATION FOR SEQ ID NO:55:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
25	(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
ž E	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:55:	
30	AGTGTCGTCA GGAACCGG	18
	(2) INFORMATION FOR SEQ ID NO:56:	
35 35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
40	<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"</pre>	
20 12 20 22 20 23	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:56:	
45	AGTGTCGTGG AACCGG	16
	(2) INFORMATION FOR SEQ ID NO:57:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
55	<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:57:	
60	AGTGTCGTTT GGATCCGG	18
J-0		

(2)	TNFOR	(MATION FOR SEQ ID NO:58:	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:58:	
AGTO	BACGT:	TT GGAACCGG	18
(2)	INFO	RMATION FOR SEQ ID NO:59:	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 8 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:59:	
GGA	ACCGG		8
(2)	INFO	RMATION FOR SEQ ID NO:60:	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:60:	
TTT	TGTGA	GT ACACCGGAAT	20
(2)	INFO	RMATION FOR SEQ ID NO:61:	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:61:	
TTT	TGTGA	GT ACAC	14
	AGT((2)) GGA: (2)	(ii) (xi) AGTGACGT (2) INFO (ii) (xi) GGAACCGG (2) INFO (ii) (xi) TTTTGTGA (2) INFO (ii) (xi) (xi) (xi)	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TyPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA" (xi) SEQUENCE DESCRIPTION: SEQ ID NO:58: AGTGACGTTT GGAACCGG (2) INFORMATION FOR SEQ ID NO:59: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 8 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA" (xi) SEQUENCE DESCRIPTION: SEQ ID NO:59: GGAACCGG (2) INFORMATION FOR SEQ ID NO:60: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA" (xi) SEQUENCE DESCRIPTION: SEQ ID NO:60: TTTTGTGAGT ACACCGGAAT (2) INFORMATION FOR SEQ ID NO:61: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid

	(2) INFORMATION FOR SEQ ID NO:62:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
10	<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:62:	
15	TGAGTACACC GGAAT	15
15	(2) INFORMATION FOR SEQ ID NO:63:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 33 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
25	<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"</pre>	
130	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:63:	
=30	ATTCCGGTGT ACTCACCGGT TCCAAACGAC ACT	33
iji	(2) INFORMATION FOR SEQ ID NO:64:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
40 []	(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:64:	
45	CAGCCTCCCC TTCTTGGA	18
73	(2) INFORMATION FOR SEQ ID NO:65:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
55	<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:65:	
60	AGTGTCGTTT GGAATTAATT	20
JU		

	(2) INFORMATION FOR SEQ ID NO:66:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
10	<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:66:	
1.5	GCGAAAGGCC TTGTGG	16
15	(2) INFORMATION FOR SEQ ID NO:67:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
25	<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"</pre>	
2 a a a a a a a a a a a a a a a a a a a	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:67:	
30	ACAGCCTCCA GGACCC	16
70 21	(2) INFORMATION FOR SEQ ID NO:68:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
1 40 1 40	<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:68:	
	GCAGCCTCCA GGACCC	16
45	(2) INFORMATION FOR SEQ ID NO:69:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 193 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
55	<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:69:	
60	CGTGGAGGCG ATCACACCGC AGACGTTGAT CAACATCCGG CCGGTGGTCG CCGCGATCAA	60
ου	GGAGTTCTTC GGCACCAGCC AGCTGAGCCA ATTCATGGAC CAGAACAACC CGCTGTCGGG	120
	GTTGACCCAC AAGCGCCGAC TGTCGGCGCT GGGGCCCGGC GGTCTGTCAC GTGAGCGTGC	180
65	CGGGCTGGAG GTC	193

	(2) INFORMATION FOR SEQ ID NO:70:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
10	<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:70:	
15	CGTGGAGGCG ATCACACCGC AGACGT	26
13	(2) INFORMATION FOR SEQ ID NO:71:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
25	<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"</pre>	
75 47 7	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:71:	
= 30	GACCTCCAGC CCGGCACGCT CACGT	25
25 23 30	(2) INFORMATION FOR SEQ ID NO:72:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 128 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
4 0	<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:72:	
45	CGCCGCGATC AAGGAGTTCT TCGGCACCAG CCAGCTGAGC CAATTCATGG ACCAGAACAA	60
43	CCCGCTGTCG GGGTTGACCC ACAAGCGCCG ACTGTCGGCG CTGGGGCCCG GCGGTCTGTC	120
	ACGTGAGC	128
50	(2) INFORMATION FOR SEQ ID NO:73:	
55	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA" 	
60	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:73:	
	CGCCGCGATC AAGGAGTTCT	20

	(2) INFORMATION FOR SEQ ID NO:74:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
10	<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:74:	
15	GCTCACGTGA CAGACCGCCG	20
13	(2) INFORMATION FOR SEQ ID NO:75:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
25	<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"</pre>	
2) 22	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:75:	
30	TGACAGACCG CCGGGCCC	18
njo G1	(2) INFORMATION FOR SEQ ID NO:76:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 121 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
40	(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:76:	
45	CGCCGCGATC AAGGAGTTCT TCGGCACCAG CCAGCTGAGC CAATTCATGG ACCAGAACAA	60
43	CCCGCTGTCG GGGTTGACCC ACAAGCGCCG ACTGTCGGCG CTGGGGCCCG GCGGTCTGTC	120
	A	121
50	(2) INFORMATION FOR SEQ ID NO:77:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
60	<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:77:	
	AGACAGACCG CCGGGCCC	18

	(2) INFORMATION FOR SEQ ID NO:78:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 121 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
10	<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:78:	
15	CGCCGCGATC AAGGAGTTCT TCGGCACCAG CCAGCTGAGC CAATTCATGG ACCAGAACAA	60
1.5	CCCGCTGTCG GGGTTGACCC ACAAGCGCCG ACTGTCGGCG CTGGGGCCCG GCGGTCTGTC	120
	T	121
20	(2) INFORMATION FOR SEQ ID NO:79:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
30	<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:79:	
las b	ACAGACCGCC GGGCCCCA	18
35	(2) INFORMATION FOR SEQ ID NO:80:	
40 A	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 119 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"</pre>	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:80:	
	CGCCGCGATC AAGGAGTTCT TCGGCACCAG CCAGCTGAGC CAATTCATGG ACCAGAACAA	60
50	CCCGCTGTCG GGGTTGACCC ACAAGCGCCG ACTGTCGGCG CTGGGGCCCG GCGGTCTGT	119
	(2) INFORMATION FOR SEQ ID NO:81:	
55	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
60	<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"</pre>	
_	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:81:	
65	CCAGACCGCC GGGCCCCA	18

- 183 -

	(2) INFORMATION FOR SEQ ID NO:82:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 119 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
10	<pre>(ii) MOLECULE TYPE: other nucleic acid</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:82:	
15	CGCCGCGATC AAGGAGTTCT TCGGCACCAG CCAGCTGAGC CAATTCATGG ACCAGAACAA	60
15	CCCGCTGTCG GGGTTGACCC ACAAGCGCCG ACTGTCGGCG CTGGGGCCCG GCGGTCTGG	119
	(2) INFORMATION FOR SEQ ID NO:83:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
25	<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"</pre>	
Ď× ×	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:83:	
]30	CAGACCGCCG GGCCCCAG	18
a L	(2) INFORMATION FOR SEQ ID NO:84:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 118 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
40	<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"</pre>	
≖∄ 45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:84:	
1	CGCCGCGATC AAGGAGTTCT TCGGCACCAG CCAGCTGAGC CAATTCATGG ACCAGAACAA	60
	CCCGCTGTCG GGGTTGACCC ACAAGCGCCG ACTGTCGGCG CTGGGGCCCG GCGGTCTG	118
50	(2) INFORMATION FOR SEQ ID NO:85:	
55	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
60	<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"</pre>	
Ŧ	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:85:	
	GAGACCGCCG GGCCCCAG	18

	(2) INFORMATION FOR SEQ ID NO:86:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 118 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
10	<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:86:	
15	CGCCGCGATC AAGGAGTTCT TCGGCACCAG CCAGCTGAGC CAATTCATGG ACCAGAACAA	60
13	CCCGCTGTCG GGGTTGACCC ACAAGCGCCG ACTGTCGGCG CTGGGGCCCG GCGGTCTC	118
	(2) INFORMATION FOR SEQ ID NO:87:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
25	(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:87:	
	CCGCCGGGCC CCAGCGCCGA	20
en in	(2) INFORMATION FOR SEQ ID NO:88:	
35 35 340	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 114 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
= 1 = 2	<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"</pre>	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:88:	
15	CGCCGCGATC AAGGAGTTCT TCGGCACCAG CCAGCTGAGC CAATTCATGG ACCAGAACAA	60
	CCCGCTGTCG GGGTTGACCC ACAAGCGCCG ACTGTCGGCG CTGGGGCCCG GCGG	114
50	(2) INFORMATION FOR SEQ ID NO:89:	
55	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
60	<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"</pre>	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:89:	
	GCGCCGGGCC CCAGCGCCGA	20

	(2)	INFOR	RMATION FOR SEQ ID NO:90:	
5		(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 114 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
10		(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
		(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:90:	
15	CGCC	GCGAT	TC AAGGAGTTCT TCGGCACCAG CCAGCTGAGC CAATTCATGG ACCAGAACAA	60
15	CCCG	CTGTC	CG GGGTTGACCC ACAAGCGCCG ACTGTCGGCG CTGGGGCCCG GCGC	114
	(2)	INFOR	RMATION FOR SEQ ID NO:91:	
20		(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
125 125 125		(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
30		(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:91:	
11.	CGGC	CGGGC	CC CCAGCGCCGA	20
= i 1 j	(2)	INFOR	RMATION FOR SEQ ID NO:92:	
35 ************************************		(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 114 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
AFTV må må		(ii) 1	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
45		(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:92:	
13	CGCC	GCGAT	TC AAGGAGTTCT TCGGCACCAG CCAGCTGAGC CAATTCATGG ACCAGAACAA	60
	CCCG	CTGTC	CG GGGTTGACCC ACAAGCGCCG ACTGTCGGCG CTGGGGCCCG GCCG	114
50	(2)	INFOR	RMATION FOR SEQ ID NO:93:	
55		(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
60			MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
		(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:93:	
	CGGGG	CCCCA	AG CGCCGACA	18

	(2) INFORMATION FOR SEQ ID NO:94:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 110 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
10	<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:94:	
15	CGCCGCGATC AAGGAGTTCT TCGGCACCAG CCAGCTGAGC CAATTCATGG ACCAGAACAA	60
13	CCCGCTGTCG GGGTTGACCC ACAAGCGCCG ACTGTCGGCG CTGGGGCCCG	110
	(2) INFORMATION FOR SEQ ID NO:95:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
25 30 30	(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
= = 20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:95:	
1150 11	AGGGCCCCAG CGCCGACA	18
er k	(2) INFORMATION FOR SEQ ID NO:96:	
35 40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 110 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"</pre>	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:96:	
73	CGCCGCGATC AAGGAGTTCT TCGGCACCAG CCAGCTGAGC CAATTCATGG ACCAGAACAA	60
	CCCGCTGTCG GGGTTGACCC ACAAGCGCCG ACTGTCGGCG CTGGGGCCCT	110
50	(2) INFORMATION FOR SEQ ID NO:97:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
60	<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:97:	
	CCCCAGCGCC GACAGTCG	18

	(2) INFORMATION FOR SEQ ID NO:98:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 106 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
10	<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:98:	
15	CGCCGCGATC AAGGAGTTCT TCGGCACCAG CCAGCTGAGC CAATTCATGG ACCAGAACAA	60
13	CCCGCTGTCG GGGTTGACCC ACAAGCGCCG ACTGTCGGCG CTGGGG	106
	(2) INFORMATION FOR SEQ ID NO:99:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
125 1	(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
= 1	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:99:	
30	TCCCAGCGCC GACAGTCG	18
2 h	(2) INFORMATION FOR SEQ ID NO:100:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 106 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
40	<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"</pre>	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:100:	
73	CGCCGCGATC AAGGAGTTCT TCGGCACCAG CCAGCTGAGC CAATTCATGG ACCAGAACAA	60
	CCCGCTGTCG GGGTTGACCC ACAAGCGCCG ACTGTCGGCG CTGGGA	106
50	(2) INFORMATION FOR SEQ ID NO:101:	
55	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
60	(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:101:	
	CGCTTGTGGG TCAACCCCGA	20

	(2) INFORMATION FOR SEQ ID NO:102:			
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 87 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 			
10	<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"</pre>			
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:102:			
15	CGCCGCGATC AAGGAGTTCT TCGGCACCAG CCAGCTGAGC CAATTCATGG ACCAGAACAA	60		
	CCCGCTGTCG GGGTTGACCC ACAAGCG			
	(2) INFORMATION FOR SEQ ID NO:103:			
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 			
25 230 30	(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"			
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:103:			
]]]]	AGCTTGTGGG TCAACCCCGA			
ant io	(2) INFORMATION FOR SEQ ID NO:104:			
35 []	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 87 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 			
140 11	<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"</pre>			
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:104:			
43	CGCCGCGATC AAGGAGTTCT TCGGCACCAG CCAGCTGAGC CAATTCATGG ACCAGAACAA	60		
	CCCGCTGTCG GGGTTGACCC ACAAGCT	87		
50	(2) INFORMATION FOR SEQ ID NO:105:			
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear			
60	(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA" (xi) SPOURNCE DESCRIPTION: SEC ID NO.105.			
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:105:			
	GTGACAGAGT TGTTCT	16		

	(2) I	INFORMATION FOR SEQ ID NO:106:			
5		(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear			
10	(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"			
	(:	xi) SEQUENCE DESCRIPTION: SEQ ID NO:106:			
15	GTGAC.	AGATT GTTGTTCT	18		
13	(2) I	INFORMATION FOR SEQ ID NO:107:			
20		(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear			
25	(:	ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"			
Mario S n Small	(:	xi) SEQUENCE DESCRIPTION: SEQ ID NO:107:			
1 30	GTGAC	AGAGC GTTGTTCT	18		
30 Ji	(2) I	(2) INFORMATION FOR SEQ ID NO:108:			
35		(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear			
40	(:	ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"			
	(:	xi) SEQUENCE DESCRIPTION: SEQ ID NO:108:			
45	GTGAC	AGAAA GTTGTTCT	18		
70	(2) II	NFORMATION FOR SEQ ID NO:109:			
50		(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear			
55	(:	ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"			
60	·	<pre>ix) FEATURE: (A) NAME/KEY: misc_difference (B) LOCATION: replace(910, "") (D) OTHER INFORMATION: /note= "The residues at these itions are spacers with abasic sugar labels."</pre>			
	(:	xi) SEQUENCE DESCRIPTION: SEQ ID NO:109:			
65	GTGAC	AGANN GTTGTTCT	18		

- 190 -

	(2)	INFO	RMATION FOR SEQ ID NO:110:	
5		(i.)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
10		(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
		(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:110:	
15	TCA	CGTGA	GC GTCCATGA	18
13	(2)	INFO	RMATION FOR SEQ ID NO:111:	
20		(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
25		(11)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
		(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:111:	
1	CAG	ACCGC	GC ACAGCGGG	18
11,30 []]	(2)	INFO	RMATION FOR SEQ ID NO:112:	
35 23 23 24		(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
្នា ភ្នំ140		(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
		(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:112:	
45	GCT	CACGA'	TA CCCCGAC	17
73	(2)	INFO	RMATION FOR SEQ ID NO:113:	
50		(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
55		(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
		(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:113:	
60	TGC	rcacg.	AT ACCCCGAC	18

WO 98/50403 PCT/US98/03194 (2) INFORMATION FOR SEQ ID NO:114: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs 5 (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid 10 (A) DESCRIPTION: /desc = "DNA" (xi) SEQUENCE DESCRIPTION: SEQ ID NO:114: 18 CGCCGGGCGC TCAACCCC 15 (2) INFORMATION FOR SEQ ID NO:115: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single 20 (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid 口。25 (A) DESCRIPTION: /desc = "DNA" ų. (xi) SEQUENCE DESCRIPTION: SEQ ID NO:115: 18 ACAGTCGGGC GGTTGTTC 30 (2) INFORMATION FOR SEQ ID NO:116: H ***** 1 (i) SEQUENCE CHARACTERISTICS: ር ነ ። 35 (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid <u>ا</u>ئے 40 (A) DESCRIPTION: /desc = "DNA" (xi) SEQUENCE DESCRIPTION: SEQ ID NO:116: 18 CGGGCCCCTA TGTGGGTC 45 (2) INFORMATION FOR SEQ ID NO:117: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs 50 (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid

(A) DESCRIPTION: /desc = "DNA"
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:117:

55

60

CTCACGTGTA TCTGGTCC

18

WO 98/50403 PCT/US98/03194 (2) INFORMATION FOR SEQ ID NO:118: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs 5 (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid 10 (A) DESCRIPTION: /desc = "DNA" (xi) SEQUENCE DESCRIPTION: SEQ ID NO:118: 16 TGACAGACGT TGTTCT 15 (2) INFORMATION FOR SEQ ID NO:119: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid 20 (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid 125 128 128 128 130 130 (A) DESCRIPTION: /desc = "DNA" (xi) SEQUENCE DESCRIPTION: SEQ ID NO:119: CCCCAGCGGC GTTGTTCT 18 (2) INFORMATION FOR SEQ ID NO:120: **3**1 las la (i) SEQUENCE CHARACTERISTICS: 35 35 (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 12, 3 क्र के (ii) MOLECULE TYPE: other nucleic acid **40** (A) DESCRIPTION: /desc = "DNA" (xi) SEQUENCE DESCRIPTION: SEQ ID NO:120: GTGTCGTTTG GAACCG 16 45 (2) INFORMATION FOR SEQ ID NO:121: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs 50 (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid

(A) DESCRIPTION: /desc = "DNA"
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:121:

55

60

TGGGCGTTGC TTGTGG

16

	(2) INFORMATION FOR SEQ ID NO:122:			
5	(i	(A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear		
10	(ii	.) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:122:		
15	TTGGGCG	TTG CTTGTGGT	18	
	(2) INF	CORMATION FOR SEQ ID NO:123:		
20	(i	.) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear		
2 5	(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:123:		
25 30	TCCTTGA	TCG CGG	13	
l-k				
T.				
i.				
i and di				